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rst Named Inventor:

Application No.:

10/028838

Group Art Unit:

1731

Filed:

December 20, 2001

Examiner:

Not Yet Known

Title:

APPARATUS FOR SELECTIVE PHOTOSENSITIZATION OF OPTICAL FIBER

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, DC 20231

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on:

April 22, 2003

Date

Signed by: Tom Sanders

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449 citing references submitted for consideration by the Examiner. A copy of each cited reference is also enclosed. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

Under 37 CFR § 1.97(e)(1), I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement.

A copy of the Search Reports from foreign counterpart applications are enclosed.

It is believed that no fee is due; however, in the event a fee is required, please charge the fee to Deposit Account No. 13-3723.

Respectfully submitted,

April 22, 2003

Date

Bv:

Alan Ball Alan Ball, Reg. No.: 42,286

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Office of Intellectual Property Counsel 3M Innovative Properties Company Facsimile No.: 651-736-3833

Substitute for form 1 1234/11 (recdified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets if necessary)

Page 1 of 1

Application Number-	10/028838
Filing Date	December 20, 2001
First Named Inventor	Carpenter, James B.
Art Unit	1731 MAL
Examiner Name	Not Yet Known O
Attorney Case Number	57210US002 0/2

in	_	U.S. Patent	Documents	C
Cite	Document Number	Publication Date	Name of Patentee	Pages, Columns, Lines, Where
No	Number-Kind Code (if known)	Number-Kind Code (if known) MM-DD-YYYY	or Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
A1	US- 4,891,640	01-02-1990	lp	
A2	US-			
А3	US-			
A4	US-			
A5	US-			
A6	US-			
Α7	US-			
A8	US-			
	A1 A2 A3 A4 A5 A6 A7	Cite No Document Number Number-Kind Code (if known) A1 US- 4,891,640 A2 US- A3 US- A4 US- A5 US- A6 US- A7 US-	Cite No Document Number Number (MM-DD-YYYY) Publication Date MM-DD-YYYY A1 US- 4,891,640 01-02-1990 A2 US- 43 US- 43 A3 US- 43 US- 43 A4 US- 43 US- 43 A5 US- 43 US- 43 A6 US- 43 US- 43 A7 US- 43 US- 43	Cite No Document Number Number Publication Date MM-DD-YYYY Name of Patentee or Applicant of Cited Document A1 US- 4,891,640 01-02-1990 Ip A2 US- A3 US- A4 US- A5 US- A6 US- A7 US-

			Fe	oreign Patent	Documents		
Exam. Cite	Foreign Patent Document		Publication Date	Name of Patentee or	Pages, Columns, Lines,	Translation	
Init.*	No.	Ctry. Code	Number-KindCode (If known)	MM-DD-YYYY	MM-DD-YYYY Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	(Check if yes)
	B1	JP	57029013	02-16-1982			
	B2	JP	08286054	11-01-1996			
	В3	JP	2001013333	01-19-2001			
	B4	EP	0805365 A2	11-05-1997			X
	B5						
	B6						
	В7						

	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS				
Exam Init *	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			
	C1	D.S. STARODUBOV, et al; "Efficient Bragg Grating Fabrication in a Fibre Through Its Polymer Jacket Using Near-UV Light", <i>Electronics Letters</i> (17 July 1997); Vol. 33, No. 15; pp. 1331-1333			
	C2	P.J. LEMAIRE, et al; "High Pressure H ₂ Loading as a Technique for Achieving Ultrahigh UV Photosensitivity and Thermal Sensitivity in GeO ₂ Doped Optical Fibres", <i>Electronics Letters</i> (27 June 1993); Vol. 29, No. 13; pp. 1191-1193			
	С3	LEMAIRE, P.J.; "Enhanced UV Photosensitivity in Fibers and Waveguides by High-Pressure Hydrogen Loading", <i>OFC '95 Technical Digest</i> , New York (Feb. 26-Mar. 5, 1995); Wed.Afternoon; pp. 162-163			

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_	Εx	-	m	1 1	30	r

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 57210W0006		of Transmittal of International Search Report /220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 02/40962	19/12/2002	20/12/2001
Applicant 3M INNOVATIVE PROPERTIES	COMPANY	
This International Search Report has bee according to Article 18. A copy is being tr	en prepared by this International Searching Atansmitted to the International Bureau.	uthority and is transmitted to the applicant
ראר	s of a total of4 sheets. y a copy of each prior art document cited in the	is report.
1. Basis of the report		
	international search was carried out on the b less otherwise indicated under this item.	asis of the international application in the
the international search v Authority (Rule 23.1(b)).	was carried out on the basis of a translation o	f the international application furnished to this
was carried out on the basis of the contained in the internation of the filed together with the internation of the furnished subsequently to the statement that the substantian of the statement that the international application of the statement that the statement	ne sequence listing: conal application in written form. ernational application in computer readable for this Authority in written form. this Authority in computer readble form. besequently furnished written sequence listing as filed has been furnished. computer readable form.	
	und unsearchable (See Box I).	
3. Unity of invention is lac	cking (see Box II).	
4. With regard to the title ,		
	ubmitted by the applicant. shed by this Authority to read as follows:	
the text has been establi	ubmitted by the applicant. shed, according to Rule 38.2(b), by this Autho e date of mailing of this international search r	ority as it appears in Box III. The applicant may, eport, submit comments to this Authority.
6. The figure of the drawings to be public as suggested by the applicant factors because the applicant factors because this figure better	licant.	1a-c None of the figures.

A. CLASSIFICATION OF SUBJECT MATTER
TPC 7 G02B6/16 C03C25/62

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

TPC 7 G02B C03C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO—Internal, WPI Data, INSPEC, COMPENDEX, IBM—TDB, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category © Citation of document, with indication, where appropriate of the relevant passages

Relevant to claim No

X : US 6 146 713 A (CULLEN THOMAS J ET AL)

1-3.6-25

Category ^c	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 6 146 713 A (CULLEN THOMAS J ET AL) 14 November 2000 (2000-11-14)	1-3,6-25
Y	the whole document	4,5, 26-28
Y	LEMAIRE P J: "ENHANCED UV PHOTOSENSITIVITY IN FIBERS AND WAVEGUIDES BY HIGH- PRESSURE HYDROGEN LOADING" OPTICAL FIBER COMMUNICATION. SUMMARIES OF PAPERS PRESENTED AT THE CONFERENCE OFC '95. SAN DIEGO, FEB. 26 - MAR. 3, 1995, NEW YORK, IEEE, US, 1995, pages 162-163, XP000669782 ISBN: 0-7803-2654-7	4,5
`	the whole document	1,14,16, 21

Further documents are listed in the continuation of box C	Patent family members are listed in annex
Special categories of cited documents	
A document defining the general state of the fart which is not considered to be of particular relevance *E* earlier document but published on or after the international filling date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filling date but later than the priority date claimed	 'I' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. 'X' document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other, such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family.
Date of the actual completion of the international search	Date of mailing of the international search report
1 April 2003	10/04/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL = 2280 HV Bijswijk	Authorized officer
Tel (+31-70) 340-2040 Tx 31-651 epo nl. Fax: (+31-70) 340-3016	Wolf, S

International Application No PCT/US 02/40962

		PC1/US 02/40962
C.(Continua Category *	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	LEMAIRE P J ET AL: "HIGH PRESSURE H2 LOADING AS A TECHNIQUE FOR ACHIEVING ULTRAHIGH UV PHOTOSENSITIVITY AND THERMAL SENSITIVITY IN GEO2 DOPED OPTICAL FIBRES" ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 29, no. 13, 24 June 1993 (1993-06-24), pages	1,14,16,
Y	1191-1193, XP000374245 ISSN: 0013-5194 the whole document STARODUBOV D S ET AL: "Efficient Bragg grating fabrication in a fibre through its polymer jacket using near-UV light" ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 33, no. 15, 17 July 1997 (1997-07-17), pages 1331-1333, XP006007731 ISSN: 0013-5194	26-28
X	the whole document EP 0 805 365 A (FUJIKURA LTD) E November 1997 (1997 11 95)	14
Α	5 November 1997 (1997-11-05) page 4, line 46 -page 9, line 54; figures 1-4	1-13, 15-28
X	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 03, 31 March 1997 (1997-03-31) -& JP 08 286054 A (SUMITOMO ELECTRIC IND LTD), 1 November 1996 (1996-11-01) abstract; figures 1-3 paragraphs '0035!-'0048!	1,14
Α	US 6 311 524 B1 (BRENNAN III JAMES F ET AL) 6 November 2001 (2001-11-06) cited in the application the whole document	1-28

Information on patent family members

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PCT/US 02/40962

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US 6146713 A	14-11-2000	AU EP WO US US US	3772400 A 1163546 A1 0057225 A1 6327406 B1 6238729 B1 6238485 B1 2002018623 A1	09-10-2000 19-12-2001 28-09-2000 04-12-2001 29-05-2001 29-05-2001 14-02-2002
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US 6311524 B3	06-11-2001	AU WO	3434701 A 0206875 A1	30-01-2002 24-01-2002

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 57210W0003	I OHEDHINEN SEC NORMERMON	of Transmittal of International Search Report /220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 02/35826	07/11/2002	20/12/2001
Applicant 3M INNOVATIVE PROPER	TIES COMPANY	
у то тимене тел и сору то	has been prepared by this International Searching Aut being transmitted to the International Bureau.	thority and is transmitted to the applicant
	consists of a total of4sheets. anied by a copy of each prior art document cited in this	s report.
Basis of the report With regard to the language in which it was f	age, the international search was carried out on the bar filed, unless otherwise indicated under this item.	isis of the international application in the
the international s Authority (Rule 23	search was carried out on the basis of a translation of t 3.1(b))	the international application furnished to this
contained in the in filed together with furnished subseque the statement that international applic the statement that	otide and/or amino acid sequence disclosed in the insis of the sequence listing: International application in written form. If the international application in computer readable formularity to this Authority in written form. If the subsequently furnished written sequence listing decation as filed has been furnished. If the information recorded in computer readable form is	m. loes not go beyond the disclosure in the
2. Certain claims we	ere found unsearchable (See Box I).	The state of the s
3. Unity of invention	n is lacking (see Box II).	
4. With regard to the title ,		
	ed as submitted by the applicant.	
the text has been e	established by this Authority to read as follows:	
the text has been e	d as submitted by the applicant. established, according to Rule 38.2(b), by this Authority com the date of mailing of this international search repo	y as it appears in Box III. The applicant may, ort, submit comments to this Authority.
6. The figure of the drawings to b	pe published with the abstract is Figure No.	<u></u>
as suggested by the		None of the figures.
	ant failed to suggest a figure. better characterizes the invention.	
	——————————————————————————————————————	

International Application No PCT/US 02/35826

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G02B6/16 C03C25/62

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC $\frac{7}{6028}$ $\frac{6028}{6030}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, COMPENDEX, IBM-TDB, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 6 146 713 A (CULLEN THOMAS J ET AL) 14 November 2000 (2000-11-14)	1-10,12, 14,17,
Y	the whole document	20-30 11,15,16
Y	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 16, 8 May 2001 (2001-05-08) -& JP 2001 013333 A (MITSUBISHI CABLE IND LTD), 19 January 2001 (2001-01-19)	11
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Torrier documents are listed in the continuation of box C	Patent family members are listed in annex.
Special categories of cited documents :	
A document defining the general state of the art which is not considered to be of particular relevance *E* carlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed	 'I' later document published after the international filing date or priorily date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '8' document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
31 March 2003	10/04/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NI 2280 HV Bijswijk	Authorized officer
Tel. (+31-70) 340 2040, Tx 31 651 epo nl. Fax: (+31-70) 3403016	Wolf, S

International Application No
PCT/US 02/35826

C (Continue	Nico) POCLIMENTS CONSTRUCTION	PCT/US 02/35826		
Category 6	etion) DOCUMENTS CONSIDERED TO BE RELEVANT			
	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claini No.		
A	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 03, 31 March 1997 (1997-03-31) -& JP 08 286054 A (SUMITOMO ELECTRIC IND LTD), 1 November 1996 (1996-11-01) abstract; figures 1-3 paragraphs '0035!-'0048!	1-30		
·	US 6 311 524 B1 (BRENNAN III JAMES F ET AL) 6 November 2001 (2001-11-06) cited in the application column 1, line 1 -column 3, line 25 column 10, line 47 -column 11, line 67; claims 12-26; figures 1-6,9-11	1-30		
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Information on patent family members

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